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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/937,255	01/22/2002	Shosei Kawashima	MAT-8164US	6470	
7590 11/03/2006			EXAMINER		
Lawrence E. Ashery			BELLO, AGUSTIN		
Ratner & Presti	a			· · · · · · · · · · · · · · · · · · ·	
PO Box 980			ART UNIT	PAPER NUMBER	
Suite 301 One Westlake Berwyn			2613		
Valley Forge, PA 19482-0980			DATE MAILED: 11/03/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Comment	09/937,255	KAWASHIMA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Agustin Bello	2613					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period who Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 21 Au	<u>igust 2006</u> .						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-12 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-12</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction		* *					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list (or the certified copies not receive	a.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/21/06 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The applicant has amended the claim language to recite that "transitions from an open state to a closed state" are detected and stored. Furthermore, the applicant points to the specification's disclosure of "the opening-closing signal" as providing the written description of the new limitation. However, the specification's disclosure of "the opening-closing signal" fails to adequately describe a "transition from an open state to a closed state" in an such a manner as to reasonably convey to one skilled in the art that the inventor(s), at the time the application was filed, had possession of the claimed invention. More particularly, the specification appears silent

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to the detection of a "transition" from the open state to a closed state and only appears to detect the normal closing of a switch contact beneath the key. Given this, the examiner has maintained the rejection of the final office action as being unpatentable over Young in view of Davies and based on the claim language that is supported by the specification, namely the detection of a normal closing of a switch contact beneath the key.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young (U.S. Patent No. 6,567,011) in view of Davies (U.S. Patent No. 4,246,611).

Regarding claims 1, 5, 9, and 10 Young teaches a plurality of keys closing switch contacts (reference numeral SXX in Figure 15B) corresponding thereto when pressed down; a microcomputer (reference numeral U1 in Figure 15B) coupled to said keys for generating a remote-control signal in response to pressing each of said keys; and a transmission circuit (reference numeral IR1 in Figure 15A) coupled to said microcomputer for transmitting a remote-control signal, wherein the microcomputer is operable to: be shifted to a test mode when a specific key of said keys is pressed (e.g. "Mode <<Magic>>" of column 9 lines 9-23); store (via ROM in U1 of Figure 15B and described in column 12 lines 65-67) an indication of which of said contacts are detected as closed after the test mode is initiated (e.g. storing "4-4-3" of column

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9 lines 9-23), said contacts indicated as closed responsive to respective depressions of said keys; and transfer the indication of said contacts detected as closed and said contacts detected as not closed said transmission circuit (e.g. blinking LED of column 9 lines 9-23). Young differs from the claimed invention in that Young fails to specifically teach storing indications of which of said contacts are detected as not closed. Davies, in the same field of remote controls, teaches that it is well known in the art to store indications of which of said contacts are detected as not closed (column 4 line 27 – column 5 line 16; e.g. bit shift register is initiated with 0's via the serial input shown in Figure 2, then a pulse for the depressed key is saved into the register). Furthermore, Young suggests storing indications of which of said contacts are detected as not closed via the disclosure of RAM within the microprocessor and the ability to determine whether or not a correct key sequence is followed in the "Mode << Magic>>." Moreover, one skilled in the art would have been motivated to store indications of which of said contacts are detected as not closed in order to have a complete account of which keys have been depressed and which have not. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to store indications of which of said contacts are detected as not closed as suggested by Young and taught by Davies.

Regarding claims 2, 4, 6, and 8, Young teaches that said transmission circuit transmits the signal as one of an infrared ray signal (via IR1 in Figure 15A) and a radio signal.

Regarding claims 3 and 7, Young teaches that the remote-control test signal additionally carries an identification signal of said microcomputer (e.g. "unique IR data output" of column 8 lines 52-65).

Regarding claim 11, Young teaches that transfer of said indications is delayed until after more than one of said indications of closing of said contacts has been stored (e.g. 0.5 second delays of column 9 lines 9-23; e.g. storing 4-4-3, the upon release of key "1" in column 9 lines 9-23).

6. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Young (U.S. Patent No. 6,567,011) in view of Davies (U.S. Patent No. 4,246,611) and Duffield (U.S. Patent No. 5,451,953).

Regarding claim 12, the combination of Young and Davies differs from the claimed invention in that it fails to specifically teach that one of said keys is detected as not closed despite being depressed. However, as noted by Duffield, this feature is very common in typical keyboard scanning software (column 2 lines 42-57). One skilled in the art would have been motivated to include such a feature in the combined device of Young and Davies in order to avoid ambiguity between reading of keys pressed simultaneously. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to include as a feature in the combination of Young and Davies the ability to detect one of said keys as not closed despite being depressed.

Response to Arguments

7. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new 112 rejection above. All of the applicant's arguments center on the newly added claim language which is not supported by the specification.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (571) 272-3026. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571)272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Agustin Bello Primary Examiner Art Unit 2613

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